Engineers Open House 1965

ART WILDHAGEN

THOUGHT YOU MIGHT LIKE A COPY OF THE LATEST LIST OF EXHIBITS

DAVE O'BRYANT

Electrical Engineering Building:

For Electrical Engineering Department:

R.F. Plasma Torch
Sonar Demonstration
G-20 Computer
U of I Train
Integrated Circuits Demonstration
Radio Controlled Ball
Magnetic Cannon
Microwave Goubau Beam
Hall Generator
The Fun House
EE Information
Goubau Beam (Micro #2)
Microwaves (Polarization)
U of I Train
Integrated Circuits
Magnetic Cannon
G-20
Parabolas
Jacob's Ladder
Lie Detector
Tesla Coil
Sensing Devices
R.F. Power Trans.
Parametric Amp.
PLATO
Diffraction of a Laser Beam
and Microwaves
Link Spray Oscillograph

Radio Controlled Ball
Digital Computer
Analog Computer
Zetetics
Closed Circuit T.V.
WPGU
Ozzie Scope Face
Stereo HiFi
Laser
Voice Tran. on Light Beam
Motor Controls
Color Organ
Servomechanisms
Strength Tester
R.F. Plasma Torch
Logical Switching Circuits
Mutual Inductance
Sonar #1
Sonar #2
Water Drop Generator
Synton

For Arnold Air Society:

Engineering Opportunities in Air Force
Air Force R.O.T.C. Systems Display in Rms. 50K and 50L

Minuteman Missile (Outside)

Talbot Laboratory:

For Soil Mechanics (Civil Engineering)
Structure Settlement
Foundation Pilings
Quick Sand Demonstration
Soil Sampling Devices

Agriculture Engineering:

Model of a Watershed
Mathematics of Tile Drainage
Strain Gauged Truss
Machinery Display and Demonstration
Environmental Controlled Equipment

Farmstead Automation
Film S.P.F. Hogs
Textbook Display
Lab. Tours

Digital Computer Laboratory

Foundry:

For Civil Engineering:

Surveying One of the Oldest and Newest Engineering Sciences (In Foundry Woodshop)

For Mechanical Engineering:

Pouring of Aluminum Souvenirs

Aeronautical Engineering Laboratory B:

For Aeronautical and Astronautical Engineering:

Plasma Jet
Propane Rocket
Supersonic Windtunnel
Subsonic Windtunnel With Wing
Shock Study Tube
Orbits and Trajectories
Crypto Compressor
Industries - NASA
Pratt & Whitney
Aero Structures
Explosion Combustion
Ramjet
Turbulent Combustion
Turbine & Compressor Parts

Engineering Research Laboratory

Mechanical Engineering Laboratory:

For Mechanical Engineering:

Equipment Display
Vanishing Liquid

Transportation Building:

For General Engineering:

Drawings by Computer
Paint Your Own Design
Counseling Service
International Harvester Exhibit

Aeronautical Engineering Building A:

For Aeronautical and Astronautical Engineering:

Subsonic Windtunnel

Ceramics Building:

For Ceramic Engineering:

Frit. Pots in Operation
Phase Equilibria
Pushing Spark Plugs Through Steel
Glass Products
Enamel Products
Ceramic Photocell
Refractories Display

TAM

Concrete Cylinders
Fluids & Hydraulics
Flow & Fracture of Metals
Fatigue
Materials Testing
Dynamics & Vibrations
Exp. Stress Analysis

Mechanical Engineering Building:

For Mechanical Engineering:

Internal Combustion Engine
Welding Equipment
Machine Design
Metal Cutting Laboratory
Analog Computer
Heat Treatment of Metals Laboratory

For Naval R.O.T.C.

Model of Phantom II
Model of Mercury
Model of Gemini
Film "Phantom Joins the Fleet"
Film "Project Gemini"

East Chemistry Building:

For Chemical Engineering:

Products
Dyes
Analog Computer
Instrumentation
Unit Operations
Chemical Pop
Chemical Magic Show

Metallurgy and Mining Building:

For Metallurgical and Mining Engineering:

Powder Metallurgy
Bubble Raft
Heat Treatment of Ferrous Materials
A.S.M. Photo - Micrograph
Gold - Cadmium Experiment
Metallurgical Engineering Curriculum Information Booth
Zinco
Phase Transformations in B Brass
Metal Oddities
Film - Unknown as yet
Dislocations in Metals

Civil Engineering Hall:

For Civil Engineering:

Construction
Man with 1000 hands
The eighth (8th) Sea
C.P.M. Planning
C.P.M. Scheduling
Limit Resources
Calendar Date Conversion
Computer Analyzation
Information Display

Highways (with a 3-minute movie to supplement the exhibit)
- There is more to a road than meets the eye
- Getting a million people to work
- Torture test for pavement
- Stresses in a pavement under load

Hydraulics
- Visual display of operating efficiency of drainage culverts
- Water resource planning project
- Air cushion craft
- Electronically controlled rain
- Basic Fluid mechanics in action
- Ground water analog model
- Pneumatic breakwater

Railroads
- All aboard at Champaign
- Building of a railroad
- Problems in railroads
- Automating railroads

Sanitation
- The role of the Sanitary Engineer in the space age
- The conversion of organic waste to useful energy

Soil Mechanics
- Quicksand
- Consolidation test
- Compression test
- Settlement of structures
- Theory of consolidation
- Foundation Piling
- Classification of soils
- Soil sampling devices

Surveying
- One of the oldest and newest engineering sciences

Traffic
- The Big Board
- The vehicles friend
- Parking meters
- Traffic sign construction
- C.C. Wiley license plate collection
- Traffic signal progression exhibit (with model vehicles)
- Solving the Green Street traffic problem
- The signal light brain

Chi Epsilon
- Glen Canyon Dam Model

Structures

DEPARTMENT OF COMPUTER SCIENCE

---cathode ray tube and computer--- room 127 dcl
---data processing and service--- room 154 dcl
---hybrid digital-analog circuit applications--- 203 & 321 dcl

DEPARTMENT OF MECHANICAL & INDUSTRIAL ENGINEERING

---foundry---
---internal combustion engine---
---computers---
---Plato---
---Pi-Tau-Sigma---
---water table---
---ash tray mfg.---
---design models---
---air flow---
---Plasma---
---heat transfer---
---motorcycle testing---

DEPARTMENT OF CERAMIC ENGINEERING

---application of glassy coatings to substrates---
---properties of modern ceramic materials---
---ceramics and temperature---
---ceramographic exhibit---

DEPARTMENT OF CIVIL ENGINEERING

---building and bridge design---
---materials for construction---
---transportation systems---
---water and air pollution control---
---water conservation and use---
---photogrammetric and geodetic engineering---
---building in the ocean---

DEPARTMENT OF CHEMICAL ENGINEERING

---glass distillation column---
---stirred tank reactor---
---glass absorption tower - chem pop---
--- luidized bed regenerator---

DEPARTMENT OF PHYSICS

---halograms---
---microwave interference and diffraction---
---magnatism and motion---
---lazers---
---spark chambers---
---JETS exhibit---

DEPARTMENT OF GENERAL ENGINEERING

---graphics---
---the student engineer---
---engineering law and history---
---design problems in industry---
---the product of an engineering education---

DEPARTMENT OF ENGINEERING MECHANICS

---fluid mechanics---
---buckling, tension and compression---
---plastic strain experiment---

DEPARTMENT OF AGRICULTURAL ENGINEERING

---rural waste management---
---pilotless prime mover---
---automated materials handling---
---soil dynamics and soil bin studies---
---student branch exhibit---

DEPARTMENT OF AERONAUTICAL AND ASTRONAUTICAL ENGINEERING

---Boeing SST model---
---Ram Jet---
---Supersonic and Subsonic wind tunnels---
---Plasma Jet---
---Orbits and Trajectories---

DEPARTMENT OF ELECTRICAL ENGINEERING

---demonstration classes---
---lab tours---
---plasma torch---
---laser and radar---
---halography---
---SWE---

DEPARTMENT OF METALURGY AND MINING

---X-ray studies of metals---
---physics of metalurgy---
---powder---
---corrosion---

Equipment for 1965 Railway Track Exhibit

Engineering Open House

The equipment for this year's display will include:

GP-9 Diesel Locomotive

Illinois Central Diesel Instruction Car

Dining Car

Streamlined Coach

Piggyback Car with Highway Trailers

Caboose

Rail Detector Cars

Ballast Conditioning Equipment

The display will be held at:

Stadium Drive and S. Neil Street

The hours of operation are:

Friday, March 12: 10 AM to 8 PM

Saturday, March 13: 9 AM to 3 PM